

AMENDMENT TO THE CLAIMS

1. (Currently Amended) A method of filling an order using a product moving device that engages and supports a pallet in a store, comprising:

receiving a list transmitted to a first device coupled to the pallet, the list including a plurality of items that are representative of the order;

transmitting the list from the first device to a second device on the product moving device;

displaying the list to an operator on a display device on the product moving device, the display of the list including, for each of the plurality of items, a quantity of the item needed for the order, a quantity of the item currently present on the pallet, and a quantity of the item remaining to be placed on the pallet to complete the order;

placing one of the plurality of items on the list on the pallet;

detecting the one of the plurality of items placed on the pallet by receiving a signal from a tag on the item and identifying the item based on the received signal;

reflecting detection of the one of the plurality of items on the list displayed on the display device, the detection being reflected by adding the number of the one of the plurality of items detected to the quantity of the item currently present on the pallet, and by deducting the number of the one of the plurality of items detected from the quantity of the item remaining to be placed on the pallet to complete the order;

electronically displaying, at the product moving device, a route within the store for the operator to travel with the product moving device to obtain all remaining items on the list;

adding information about the one of the plurality of items to an RF tag on the pallet, the information including a name of the item, a description of the item, an item ID, and a weight of the item; and

adding information to the tag on the one of the plurality of items, the information

including a date and a time the item was added to the pallet;  
providing delivery and transport information to the RF tag on the pallet, the information  
including a delivery address, a freight company, and interim transit points;  
quervying the operator about additional items not on the list;  
preventing the moving device from moving upon an item not on the list being placed on  
the pallet;  
providing a manual override function to allow the moving device to move; and  
adding a notation that the manual override function was utilized.

2-4. (Cancelled)

5. (Currently Amended) The method of claim 1 wherein the quantities of the items needed for the  
order, the quantities of the items currently present on the pallet, and the quantities of the items  
remaining to be placed on the pallet are arranged such that each type of information is in a  
separate column, wherein above each of the columns is a label field that identifies the type of  
information included in the associated column, and wherein an area above the label fields  
includes a pallet identification field and an order identification field, the pallet identification field  
displaying a unique pallet identification number for each pallet, and the order identification field  
displaying a unique order identification number for each order.

further comprising:

~~providing delivery and transport information to the RF tag on the pallet, the information~~  
~~including a delivery address, a freight company, and interim transit points.~~

6. (Currently Amended) The method of claim 5-1 wherein displaying the list further comprising:  
displaying information for each of the plurality of items on separate lines of the display  
device;  
displaying different types of information for each of the plurality of items in separate  
columns within each of lines; and  
wherein one of the separate columns includes location information for each of the

plurality of items.

7. (Currently Amended) The method of claim ~~5~~1 further comprising:

storing information associated with the product moving device to the RF tag on the pallet,  
the information including an indication of a forklift, the operator, and a time of  
day.

8. (Currently Amended) The method of claim 5 further comprising:

receiving an indication of a next item in the list to load on the product moving device;  
displaying on the display device the next item on the list; ~~and~~  
displaying on the display device a map, the map including the locations of the next item  
on the list and the product moving device; and  
wherein the next item on the list and the map are displayed in an area of the display  
device that is positioned below each of the quantities of the items needed for the  
order, the quantities of the items currently present on the pallet, and the quantities  
of the items remaining to be placed on the pallet.

9. (Currently Amended) The method of claim 8 further comprising:

displaying on the map locations of other product moving devices and blocked aisles, the  
locations of the other product moving devices and the blocked aisles being  
communicated to the product moving device from a master computer system that  
receives information indicative of the other product moving devices and of the  
blocked aisles utilizing RFID readers located within the store.

10. (Currently Amended) The method of claim 9 further comprising:

displaying on the map a routing to the next item, the routing being displayed utilizing a  
line that indicates a path from the product moving device to the next item.

11. (Previously Presented) The method of claim 1 further comprising:

receiving at the display device an indication of specific handling instructions for the plurality of items, the specific handling instructions including an order in which to load the plurality of items onto the pallet.

12. (Cancelled)

13. (Currently Amended) The method of claim 1 further comprising:

adding information related to storage of the one of the plurality of items to the tag on the one of the plurality of items, the storage information including ~~temperature and shock information;~~ and  
adding information related to delivery and transport of the pallet to the tag on the pallet.  
the delivery and transport information including a delivery address, a name of a freight company, and interim transit points.

14. (Cancelled)

15. (Previously Presented) The method of claim 1 further comprising:

determining if a second detected item is on the list;  
providing an indication to the operator if the second detected item is not on the list;  
adding the second detected item to the list on the display device; and  
displaying the second detected item in a format different from the plurality of items that were originally on the list.

16. (Previously Presented) The method of claim 15 wherein the second detected item is displayed in bold.

17. (Previously Presented) The method of claim 15 wherein the second detected item is displayed in a different color than the plurality of items.

18. (Currently Amended) The method of claim 1 further comprising:

accessing additional data about the one of the plurality of items on the list through the display device; and  
returning to the list ~~after a predetermined period of time~~upon the product moving device moving.

19. (Previously Presented) The method of claim 18 wherein accessing the additional data further comprising:

touching a representation of the one of the plurality of items on a touch screen.

20. (Previously Presented) The method of claim 1 wherein when a last item on the list is placed on the product moving device, the method further comprising:

instructing the operator of the product moving device to take the pallet to a specific truck;  
reading the RF tag on the pallet with an RF reader on the specific truck; and  
recording the pallet as being loaded at the specific truck.

21. (Cancelled)

22. (Currently Amended) An order filling system comprising:

a first computer system;  
a picklist containing a list of desired items to fill an order;  
a product moving machine having a first reader disposed thereon, connected to the first computer system;  
a pallet having a tag and a second reader disposed thereon, the tag readable by the first reader on the product moving machine, the tag storing a pallet identification and data related to the order including the picklist in a form readable by the reader, the pallet identification being associated with the order in the first computer system and wherein the second reader is configured to read data from an item tag disposed on each of the items that is placed on the pallet;

a display device connected to the product moving machine configured to display the picklist;  
wherein the picklist is generated at the first computer system and transmitted to the first reader on the product moving machine;  
wherein the pallet tag is updated to include information from the item tag of each of the items placed on the pallet; and  
wherein the picklist includes:

an order information area having an order number area, a pallet ID number area, and a picklist area, the order number area displaying an order label and a number that identifies the order, the pallet ID number area displaying an ID label and a number that identifies the pallet, and the picklist area including information about the order arranged in a plurality of rows and columns, each of the columns corresponding to a different type of information, a top row of each column having a label that identifies the type of information included in the rows beneath the top row, each of the rows beneath the top row corresponding to one type of item included within the order, one of the columns the information including, for each of the items in the list, a item description information, a second one of the columns including a quantity of item desired information, a third one of the columns including a quantity of item present on the pallet information, a fourth one of the columns including quantity of item remaining to complete the order information, and a fifth one of the columns including item location information that identifies, for each of the items in the list, a location of the item within a warehouse;

a location area having a map of ~~a~~ the warehouse, the map showing the location of the product moving machine within the warehouse;

an information area having instructions, the instructions indicating a specific arrangement required for placement of items on the pallet;

a user interface area that allows an operator to view more details about a specific

item on the order and to view other options that are not shown on the display device, the user interface area having a plurality of buttons that can be activated by the operator, the user interface further having, above the plurality of buttons, a display portion that provides information relating to a response that is executed by the system when the corresponding button is pressed; and

wherein the specific arrangement includes arranging items on the pallet to obtain a correct weight balance.

23-24. (Cancelled)

25. (Currently Amended) The order filling system of claim 22 wherein the product moving machine is a forklift, ~~and~~ wherein the pallet tag is placed on an inside portion of a support on the pallet, wherein the order number area and the pallet ID number area are positioned above the picklist area on the display device, wherein the picklist area is positioned above the location and the information areas, and wherein the location and the information areas are positioned above the user interface area.

26-27. (Cancelled)

28. (Currently Amended) The order filling system of claim 22 wherein the reader of the product moving machine is configured to receive information from the tag on the pallet as items are placed on the pallet, ~~and~~ wherein the pallet tag and the second reader are integrated into a single unit, and wherein the product moving machine is prevented from moving upon an item not included on the picklist being placed on the pallet, the product moving machine further including a manual override function that allows the product moving machine to move once it has been prevented from moving, and wherein a notation is made upon the manual override function being used.

29-30. (Cancelled)

31. (Previously Presented) The order filling system of claim 22 wherein the specific arrangement includes placing heavier items on the bottom of the pallet.

32. (Cancelled)

33. (Previously Presented) The order filling system of claim 22 wherein in response to an item being placed on the pallet, the display device is configured to change the item's quantity present and quantity remaining.

34. (Previously Presented) The order filling system of claim 22 wherein the plurality of buttons include an up button, a down button, and a details button, the up and the down buttons enabling a cursor to move between items in the picklist, and the details button enabling the operator to view details about a selected item.

35. (Previously Presented) The order filling system of claim 34 further comprising a button associated with the picklist that enables the operator to return to the screen displaying the picklist.

36. (Previously Presented) The order filling system of claim 22 wherein the display device is configured to provide an audible alert if an item not on the picklist is placed on the pallet.

37. (Previously Presented) The order filling system of claim 22 wherein the tags and the readers operate using radio frequency (RF), the RF selected from the group consisting of 125 kHz, 13.56 MHz, and 800-900 MHz.

38-40. (Cancelled)